





# STAR TREK Tricorder/Starship Sensors Interactive Display





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# STAR TREK® Tricorder/Starship \_\_\_\_Sensors Interactive Display\_\_\_

STAR TREK\* Tricorder/Starship Sensors Interactive Display A supplement for use with Star Trek: The Role Playing Game

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## Introduction

The colonists' message was abruptly cut off, but there was mention of Klingons. You and your landing party have found neither colonist nor Klingon, and now the fog has rolled in.

"Science Officer, take a tricorder reading." A familiar whine fills the air.

"Captain, I'm picking up a life-form reading ... "

#### COMPONENTS PROVIDED

In addition to this booklet, the following components are provided for this display:

Tricorder Display/Sensors Display – Full color card, with the displays printed side by side, so that after assembly, the two displays will be back-to-back. The displays have die-cut holes in them where the data will be read when the components have been assembled; each hole is marked with a letter corresponding to one of the Data Wheels.



**4 Data Wheels** – These wheels are printed on both sides and have mounting holes in the center. They are marked with letters corresponding to the appropriate locations on the Display; the side marked T is for the Tricorder Display, and the side marked S is for the Sensors Display.



**5 Data Strips** – These strips are printed on both sides. The side labeled T is for the Tricorder Display; it is printed with a red overlay so that the information on it cannot be read easily without inserting it into the Tricorder Display. The side labeled S is for the Sensors Display.

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**4 Brass Mounting Fasteners** 

### CONTENTS OF THIS BOOKLET

This booklet contains all the information needed to add the Tricorder/Sensors Display to STAR TREK role play games. It provides instructions in preparing the Display for use and for setting and reading data on the display. It also provides rule systems for using tricorders and sensors, with examples appropriate to the Display. Appendices at the end list all the elements on each Data Wheel and Data Strip, the types of stars, the types of planets, and the types of starships.

#### PREPARING THE DISPLAY

Carefully remove all die-cut windows from the Display and center holes from the Data Wheels.

Arrange the Display so that the Tricorder Display is facing up, and so are the sides of all four Data Wheels marked with a *T*. Open the Display like a book, so that the Sensors Display is flat on the table, face down.

Place the Data Wheels on the upside-down Sensors Display so that the wheel marked A is behind the window marked A on the Tricorder Display and so on. Position the center hole of each wheel so that it is directly over the hole in the card below it.



Fold the card together like a book, with the wheels between the two Displays. Fasten each wheel with a brass fastener, insuring that the wheels are fixed in place behind their proper windows. Fold back the fastener tabs.

For use as a tricorder, slide a Data Strip into the Display so that the side marked T shows through the red window on the Tricorder Display side. For use as a sensors display, slide a Data Strip into the Display so that the side marked Sshows through the window on the Sensors Display side.

The Display is now ready to use.

#### USING THE DISPLAY

A player uses the Tricorder or Sensors Display during an adventure when he wants to take a tricorder reading to get information that his character does not know. The gamemaster provides a series of letter and number elements that will let the player use the display to give information that the gamemaster would otherwise have to provide as a verbal description.

#### DATA WHEEL ELEMENTS

Each letter/number element locates a particular piece of data on the display. The first part of each element is a letter that indicates the Data Wheel where the piece of data is printed. The second part of each element is a number that tells the proper piece of data on the wheel. **Appendix A** lists all of the elements for the Tricorder Data Wheels, and **Appendix B** lists all of the elements for the Sensors Data Wheels.

For example, the letter/number element *D15* tells that the information is on Data Wheel D and that it is number 15 on that wheel. For the Tricorder Display, *D15* is found on the wheel that tells information about substances and energy sources. A setting of *D15* indicates that the tricorder is picking up a heat energy source.

#### **Multiple Data Elements**

Sometimes a reading will give more than one data element, particularly if the reading were made several times. In this case, the gamemaster would give the player several letter/number elements in a row. The player would set each wheel, using the combination of settings to *interpret* what information is received. For novice users, it is a good idea to keep the number of elements given at one time small to help them with translations.

For example, the player states that his character (a novice with the tricorder) is taking a tricorder reading for energy sources. In response, the gamemaster gives the following data elements: A11/B10. The player sets wheels A and B on the Tricorder Display. He can see that the tricorder is picking up an unknown energy source. He resets the wheels to 32, and uses the tricorder again to find the distance of the source. This time the gamemaster gives the elements B3/C6/D8, to show that the fire is 368 meters away from the player character. A third tricorder reading gives the player the settings A17/B11. From this, he can see that his character is scanning a large heat source. All three readings give the player the information that 368 meters away is a large heat source of unknown or unrecognized origin.

The same Data Wheel may be used for more than one element, giving multiple modifiers to a piece of basic information. In this way, general readings can be made specific, either by adding elements to the original reading for successful later readings, or by giving a detailed reading initially.

For example, a novice's tricorder life-forms reading gives settings of A9/A17/D10. It uses Data Wheel A twice to give a scan of multiple large plants (a grove of trees). For an character with more skill, this could be given as A9/A17/A20/ D12/D12, for a scan of multiple large, stationary plants that are alive, a much more detailed reading that uses Data Wheel A three times and Data Wheel D twice.

Another example, for a materials reading by an expert, uses all four Data Wheels several times. The settings are A15/A20/C12/C9/C12/D5/A9/A15/C15/D3/A9/A14/D15/D30/D2/ A9/A15/D12/D28/A26/A9/A13/D28/D13, showing a scan of a small, stationary volume of liquid; composed of 90% liquid; 5% multiple small minerals; 3% multiple small, decaying fish; 2% multiple small, growing plants; increasing multiple tiny, new lower life forms. (I thought I'd fed my fish enough!) DATA STEID ELEMENTS

#### DATA STRIP ELEMENTS

The Tricorder Data Strips are overprinted in red to conceal the information they contain, and they have two sides with six panels each. *Side A* for Strips A, B, C, and D has elements 1 through 18 on it, and *Side B* has elements 19 through 36. *Side A* for Strip E has elements 1 through 6 on it, and *Side B* has elements 7 through 12. Strip A contains information on energy sources, Strips B and C deal with substances, and Strips D and E deal with life forms. All the data elements on these strips are found in **Appendix C**.

The Sensors Data Strips are different. They are not overprinted in red, they are only one-sided, and they have four drawings on them. Those provided with the Display have pictures of starships. **Appendix D** lists all of the elements for the Sensors Data Strips.

The Data Strips represent the memory of the tricorder or the screen readout of the sensors. When a reading has identified something in the tricorder's memory, the gamemaster gives the players a data element. The player will insert the appropriate Data Strip and locate the element. Particularly with the common information given in the five strips supplied with the Display, the gamemaster may give all the strips to the players and have them make the necessary settings, just as they would do with the data wheel.

For example, let us say that the players identify an Imperial Klingon with the tricorder. The gamemaster tells the players to set element E7 on the Tricorder Display. The player using the display selects Strip E, and sets Side B, element 7. This will display a picture of an Imperial Klingon.

Data strips from adventures and elsewhere, however, may contain information that should be concealed from the players until they have discovered it. In these cases, the gamemaster will insert the appropriate Data Strip and set the Display to show the data element corresponding to the thing identified. Then, the player can read the information from the window.

For example, the players encounter a Gorn, and the gamemaster inserts the adventure Data Strip in the Tricorder Display, so that the appropriate pictures show through the window. He sets the element given in the adventure, which shows a Gorn in this case, and hands the Display back to the players.

## Using Tricorders

#### TRICORDER TYPES

There are two types of tricorders, the sciences tricorder and the medical tricorder. As of Reference Stardate 2/2200, there are three models for the sciences tricorder: the standard model, the improved standard model, and the directional model. As of the same date, there are two models of the medical tricorder: the standard model and the improved standard model.

The sensitivity and range for each model is different, with the most sensitive being the directional sciences tricorder. Although the improved standard tricorders have a greater overall range, the most improvement comes in the ranges for the more detailed readings.

### TRICORDER DATA DESCRIPTIONS

For convenience, the following information is from the **STRPG2** rules booklet.

#### SCIENCES TRICORDER

The sciences tricorder makes three basic types of scans, with several sensitivity levels available for each; in most cases, the overall sensitivity of the device depends on the user's skill in *Computer Operation*. It can scan for energy sources, for substances, and for life forms.

#### **Energy Sources**

A general scan for energy sources will reveal if any major source of energy exists within the tricorder range. A second scan will pinpoint its direction and approximate distance. As long as the source continues output, the tricorder will lead the user to it, even if it moves. A specialized scan may be made from a far closer distance to determine the type of energy source. An even narrower scan near the energy source will pinpoint the area or item that creates or draws the energy.

#### Substances

A general scan for concentrations of a desired substance will reveal any present within the tricorder range. A second scan will reveal the direction and the approximate distance. A specialized scan may be made within from a far closer distance of an unknown substance to determine what it is primarily made of. An even narrower scan near a substance will give its complete chemical composition. Only substances for which scans exist in the computer banks will be identified, and substances that have never been scanned before will be noted as unknowns.

#### **Life Forms**

A general scan for the presence of other life forms will reveal any within the area; the range for this scan is less than that of the other scans. A second scan will tell direction and approximate distance. A specialized scan made within a far closer distance will reveal the number of individual life forms and their general type. More precise data requires the use of a medical tricorder.

#### MEDICAL TRICORDER

The medical tricorder will give more detailed information on substances and life forms than the sciences tricorder, but it does not possess the sciences tricorder's range or versatility.

#### Substances

The presence of a substance and its general direction and distances can be determined within the tricorder's range. A narrow scan near the substance not only will determine the chemical composition of a sample, but also will give data on that substance's effects on various life forms.

#### **Life Forms**

Within a far shorter range, a life forms scan can identify any known life form and give considerable biological data about even an unknown form. A narrow scan near the life form reveals complete diagnostic medical data. In addition, it can detect foreign materials in the bloodstream, of aid in diagnosing cases of poisoning or drugging.

#### READING SENSITIVITY

Though the tricorder may be used by anyone with basic proficiency in *Computer Operation*, it is used more efficiently and with greater precision and sensitivity by those with greater skill. The information available from any reading depends on two things, the range from the subject of the scan and the detail required.

The **STRPG2** rules tell what information may be gained at what ranges by a person with basic proficiency (Skill Rating of 10) in *Computer Operation*. Those rules do not take into account the increased detail and range that a skillful, experienced operator will get from the same readings. The rules in this section will present extensions of the **STRPG2** rules to take increased proficiency into account. The sections below define the various proficiency groupings used and discuss the information available to characters in these groupings, showing the variation for range and for detail.

In all cases, the limits given below are for information obtained in *leisurely, non-critical, normal uses*, that is, those that require *no* Skill Roll as defined in the **STRPG2** rules. For other situations, a Skill Roll may be required, as described in the section on **Tricorder Skill Rolls**.

#### PROFICIENCY GROUPINGS

The following groupings are used in the tables for range and detail.

	<b>Proficiency G</b>	roupings
Group Number	Skill Rating	Description Of Group
0	1 - 9	Semi-skilled
1	10 - 24	Basic proficiency
Ш	25 - 39	Average proficiency
tit	40 - 59	Professional proficiency
IV	60 - 79	Mastery level proficiency
V	80 - 94	Expert level proficiency
VI	95+	Exceptional level proficiency

#### INFORMATION CLASSES

The detail available from any reading increases as the proficiency of the operator increases. The Information Classes for the tricorder are given in the table below. Each Class adds a level of detail to the information known by Classes with lower numbers, so that Class IV information is very specific.

De	tail Available For Information Classes
Information	
Class	Detail Available
I	General information.
	Presence of an energy source, substance,
	or life form.
	Distance and range to detected object.
	General size of detected object.
	General type of energy source or life form.
	General composition of substance.
	Presence or absence of selected energy
	sources, substances, or life forms, the
	data for which is pre-programmed into
	the tricorder.
11	Rough, low-level detail.
	Movement direction of detected object.
	Strength of energy sources or
	concentration of substances.
	Temperature relative to surroundings.
	Relative density or weight.
	Whether detected life forms are alive
	or dead.
	Identification of known sentient life form,
	if tricorder has pre-programmed data.
111	General detail.
	Alteration in behavior, in acceleration,
	number, size, and so on.
	Emissions from detected object.
	Identification of several specific types of
	organic or mineral substances.
	whether detected life forms are sentient
DV.	Cresifie high level detail
IV	Turpe of pottern in detected object's
· · ·	hobavios
	Stability of detected object
	Effect of enecific substance on life form
	iftricorder bas pre-programmed data
	Relative are of detected object or stage of
	life for life forms
	Pinnointing the exact location of the source
	of energy when near an unknown
_	mechanism.

#### RANGE

Maximum ranges are given in the **STRPG2** rules for the standard tricorder; the ranges given in the **STAR TREK III Sourcebook Update** are for all three tricorder types. In both cases, the ranges are given for persons of minimum skill. The maximum range for any type of reading may be extended for persons of greater skill: the greater the skill, the farther away that a specific piece of information can be gained from a scan. Furthermore, the greater the skill, the more information can be gained from a scan at the same distance. Characters with very high Skill Ratings also can use a sciences tricorder for information normally available only using a medical tricorder.

The tables below give the ranges, in meters, for each tricorder type and each type of scan in *leisurely, non-critical applications*. In other situations, the reading may not be possible without exercising the character's *Computer Operation* skill to the limit (and making a successful Skill Roll).

	STANDARD TRI	CORD	ER P	ANG	ES		
Scan			Max	cimur	n Ran	ge	
Info	ormation Class	F	or Pro	oficier	ncy Gi	roups	M
Eneray	Sources-	1	11	III	IV	v	VI
l	oburges.						
	Standard Sciences	400	600	1000	1300	1500	1600
	Improved Sciences	500	750	1200	1400	1650	1750
	Directional Sciences	1000	1200	1000	1750	1900	2000
	Standard Sciences	100	400	600	800	900	1000
	Improved Sciences	250	550	800	1100	1300	1500
	Directional Sciences	300	700	1000	1300	1500	1700
111	Standard Sciences	_	80	100	175	300	350
	Improved Sciences	40	100	175	350	500	550
	<b>Directional Sciences</b>	75	125	200	400	550	650
. IV							
	Standard Sciences			1.5	3	7	10
	Directional Sciences	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10	15	20	23	20
Life Fo	me'	and the second					
LITEIO							
	Standard Sciences	200	300	500	650	750	800
	Improved Sciences	350	500	700	850	1000	1100
	Directional Sciences	40	100	150	175	225	250
	Standard Medical	250	400	500	650	750	1100
	Improved medical	400	000	000	330	1000	1100
	Standard Sciences	30	60	100	150	200	250
Sector Sector	Improved Sciences	40	100	150	190	250	300
	Directional Sciences	70	150	250	325	400	450
	Standard Medical	08	120	175	220	240	300
111	improved medical	00	120	17.5		200	300
	Standard Sciences	_	_	1.5	3	4	5
	Improved Sciences	—	1.5	3	5	8	10
	Directional Sciences	-	1.5	4	7	10	12
	Standard Medical	1.5	15	25	20	35	40
IV.	Improved medical						100
	Standard Sciences		-		1.5	3	5
all services	Improved Sciences			1.5	3	6	10
	Directional Sciences	-		1.5	4	7	10
	Standard Medical	1.5	35	5 10	0 15	10	20
Substa	nces.		CE CE	State of a	all all a second	1999.54	California a
1	11000.						
	Standard Sciences	400	600	1000	1300	1500	1600
	Improved Sciences	500	750	1200	1400	1650	1750
	Standard Medical	50	75	100	250	325	2000
	Improved Medical	75	100	150	300	400	500
1							in and
	Standard Sciences	100	400	600	800	900	1000
	Improved Sciences	250	550	800	1100	1300	1500
	Standard Medical	300	*60	1000	250	3 25	400
	Improved Medical	90	120	150	300	400	500
III		Aller and a second	4730,-1943	29536268	an a	and classes	2201302-345
	Standard Sciences		80	100	175	300	350
	Improved Sciences	40	100	175	350	500	550
	Directional Sciences Standard Medical	/5	125	200	400	250	000
_	Improved Medical	40	100	150	175	225	250
IV							
	Standard Sciences		·	1.5	3	7	10
	Improved Sciences		3	15	20	23	25
	Directional Sciences Standard Medical	3	8	15	20	23	25
	Improved Medical	3	8	1.5	20	23	25

#### THE TRICORDER DISPLAY

The following sections describe the data elements on each Data Wheel. The table in **Appendix A** gives the exact data elements for all four wheels.

#### SCAN SENSITIVITY

On all wheels, the data elements are organized from those available in each Information Class. Those in Class I occupy the lower numbered spaces, and those for Class IV occupy the higher numbered spaces. Data Element 31 gives general reading information, different for each wheel, and Data Element 32 is blank. The following table shows the ranges.

<b>Data Elements For Each Proficiency Group</b>				
Information Class	Data Element Numbers			
1	1 - 19, 31, 32			
11	20 - 23			
UI	24 – 27			
IV	28 - 30			

#### DATA WHEEL DESCRIPTIONS

#### Data Wheel A

This wheel gives qualifiers for the readings on other wheels. Direction, relative number, size, movement, acceleration, increase/decrease, and pattern type are found here.

#### **Data Wheel B**

In addition to numbers in hundreds, this wheel gives information about energy sources. It gives descriptors of the general type of source (such as electrical or hydraulic), its general strength, its emissions, and its stability.

#### **Data Wheel C**

In addition to numbers in the tens, this wheel gives information about substances. It gives descriptors for its state (such as solid), its nature (such as metallic or artificial), its relative temperature, its weight or density, and its effect on life forms.

#### **Data Wheel D**

In addition to the numbers from 0 to 9, this wheel gives information about life forms, including all the life-form types given in in the **STRPG2** rules. It gives descriptors about their state (such as alive, expanding, or aging), and their ability to think.

#### Notes

The sizes given correspond to the standard sizes specified in the **STRPG2** rules: tiny (mouse), very small (housecat), small (dog), medium (lion), large (horse), very large (elephant), huge (brontosaurus).

Cardinal directions (north, south, east, and west) are planetary directions oriented using the axis of planetary rotation to determine north and south.

In keeping with the **STRPG2** rules, distance readings should be given in meters, bearing in mind the ranges for each type of reading. Thus, the elements A1/B8/C5/D3 would be given as the settings for a distance of 1853 meters (1000/ 800/50/3).

Compositions should be given in percent. Thus, the elements C4/D2/C12 would be given as the settings for a composition of 42% liquid (40/2/liquid).

#### DATA STRIP DESCRIPTIONS

The Tricorder Data Strips are overprinted in red, so that the information on them is concealed. Each strip, except Strip E, has 36 data elements on it, 18 per side. The elements on Side A are upside down with respect to the elements on Side B, and so it is necessary to turn the strip around (not over) to get elements 19 through 36. There are only 12 elements on Strip E, six per side.

#### **Data Strip A: Energy Sources**

Side A of this strip lists various examples of the energy source types given by Data Wheel B (like *earthquake*). Side B lists various types of emissions, emanations, transmissions, or discharges that can be identified from given energy sources (like *radio transmission*) or energy converters (like *phaser discharge*).

#### **Data Strip B: Substances**

This strip lists various naturally occurring metals and mineral substances. Side A includes normal metals (like *iron*), special metals (like *gold* or *ryetalyn*), and industrial crystals (like *dilithium*). Side B lists gemstones (like *diamond*), radioactives (like *plutonium*), and general mineral substances (like *sulphur* or *limestone*).

#### **Data Strip C: Substances**

Side Å of this strip lists processed or manufactured mineral substances (like *steel*); several blank spaces are provided for gamemaster use. Side B lists natural, processed, or synthetic organic substances (like *crude oil, petroleum fuel,* or *soft plastic*).

#### Data Strip D: Life Forms

Side A of this strip lists examples of the various life forms given on Data Wheel D (like *dog/wolf* or *protozoa/ amoeba*). Side B lists various pieces of life-support information dealing with the atmosphere and the water of a planet; it also gives biological information about the nature of substances with respect to various life forms (like *plant poison*).

#### **Data Strip E: Life Forms**

Side A of this strip shows drawings of the major UFP races (like *Edoan*). Side B of this strip shows drawings of the other starfaring races (like *Gorn*).

#### **COMBINING WHEELS AND STRIPS**

The elements of the wheels may be combined with those on the strips to give really precise readings. When doing this, always give the Data Strip element first, making it clear that this is for a data strip.

For example, the set of elements B8//C3/D5 for a tricorder composition scan gives the reading 35% meteoritic nickeliron. The elements A30//A21 says approaching plasma (duck or D21!).

#### TRICORDER ROLLS

The **STRPG2** rules state that in *ROUTINE* use, a character may take tricorder scans *WITHOUT* a Skill Roll. The following change in those rules is provided for those gamemasters who wish to use it.

#### **PROFICIENCY FACTOR**

Whenever the tricorder is used, whether the use is routine or not, the using character must roll percentile dice, just as though he were making a Skill Roll. The percentile dice roll is combined with the Skill Rating in *Computer Operation* to give the Proficiency Factor, as shown in this formula:

#### Proficiency Factor = 100 + Skill Rating - D100

The Proficiency Factor will be used to determine not just success or failure with the tricorder, but how well the character used the device. If the character rolls low enough, his Proficiency Factor will be very high; in this case, he will have used his skill to the maximum, wringing out of the readings more information than he could normally, or perhaps at a far better range. If he rolls high, however, the opposite may be true, and he will have used his skill less well than normal.

If the Proficiency Factor is less than 100, then no additional detail or range is possible, and some detail or range may be lost: the lower the Proficiency Factor, the less the detail and range. If the Proficiency Factor is 100 or more, then additional detail or range will be possible: the higher the Proficiency Factor, the more the detail and range.

#### EFFECTIVE PROFICIENCY

To find the effective proficiency for any tricorder use, first find the Proficiency Factor. Then, in the table below, find the character's current Proficiency Group. Cross-reference this with the column containing the Proficiency Factor. This gives the Effective Proficiency Group for that tricorder use. The highest is Group V, no matter how high the Proficiency Factor or low the roll.

For example, if a character has a Skill Rating of 57 in *Computer Operation*, he will be in Proficiency Group III. Let us say he makes a percentile roll of 46, which makes his Proficiency Factor 113. Cross-referencing for this use shows that he is in Effective Proficiency Group IV. Because this group is higher than his usual group, he will be able to find more detail at any particular range, or increase the range for a particular type of scan.

If his percentile roll were 81, his Proficiency Factor would be 76. Cross-referencing shows that he is just barely in Effective Proficiency Group I. If he had rolled an 82, his Proficiency Factor would have been 75, and he would not have been able to get any reading at all.

For leisurely, non-critical, routine uses, the character's skill must be in Proficiency Group I or higher; for these uses, modify the table results by making the Effective Proficiency Group one higher. Characters in Proficiency Group 0 *always* use the table below with no modification.

Other modifiers may be added by the gamemaster to adjust for the situation or the desired action by the player. In this way, it is possible for player characters to use the sciences tricorder to get rough medical data, if their Proficiency Factors are high enough.



## Using Starship Sensors

### SENSORS SYSTEM TYPES

There have been four different sensors developed since the first laser-equipped ships through the USS Excelsior, which had the best sensors of all Star Fleet vessels at the time it was commissioned. Developed in response to increases in technology in other fields, three of these types represent substantial advances in detection technology. Without such advances, the ships would not have been able to take full advantage of the advances in warp drive technology with safety, nor would they have been able to use the new weapons systems to their fullest potential. Only the sensors system developed for the *Excelsior* is an extension of technology already developed, and not a major breakthrough.

#### FRA SENSORS SYSTEM

The FRA sensors system, introduced Reference Stardate 1/0200 and very advanced for its time, was useful for the early vessels on which it was mounted. As with all subsequent models, it gave navigation information to the ship's computer at distances great enough to insure that the ship travelling at warp speeds did not even come dangerously close to celestial objects that could not be handled by the deflector shields. As with all later models, the FRA provided identification information at ranges greater than the most powerful weapons could fire, and it provided detailed battle information at medium-to-long ranges for the ship's weaponry. It was clear from field reports, however, that the more skillful users were limited by the short range and lack of sensitivity of the detection devices.

#### FRB SENSORS SYSTEM

The FRB sensors system, such as that found on the old Constitution Class vessels, represented as great an advance in information detection as did the phaser in weaponry. Introduced Reference Stardate 1/9900 in response to the need for sensors that could detect farther than the new phaser weapons, the FRB was capable of far greater range than the FRA (at least five times as great for professional-level users). Furthermore, its sensitivity was substantially improved; using the FRB, experts could gain data that was the equivalent of that provided by the tricorder, at ranges that were greater than the range of the most general identification information from the FRA. With its introduction, the sensors again outperformed the weaponry, and they kept pace with the greater warp speeds of the vessels on which they were mounted. By the time this sensors system was available on the majority of vessels, training had advanced to the point where experts again were limited by the detection system.

#### FRC SENSORS SYSTEM

The FRC sensors system, introduced Reference Stardate 2/1600 and found on the new *Enterprise* Class vessels, represents an advance from the FRB system. Although the maximum range was improved about 50%, design break-throughs made it possible for the professional-level user to gain information at ranges more than 50% greater. The FRC allowed new Science Officers to gain general information at ranges previously only available to experts such as Commander Spock of Vulcan. Of course, with the improvement in weaponry represented by the FH-11 phaser, the system was required to be more powerful. Nonetheless, it met this challenge, giving detailed battle information at ranges greater than the FH-11's maximum for professional-level users, and ranges close to the maximum weapon range for users of average skill.

#### FRD EXPERIMENTAL SENSORS SYSTEM

The new and experimental FRD sensors system, designed for the enormously powerful and fast USS Excelsior commissioned Reference Stardate 2/2201, is only an extension of the FRC sensors technology instead of a real advance such as seen with the FRB and the FRC. The maximum navigation range allows the *Excelsior* to travel at Warp 14 without danger, and the maximum identification range has been extended another 50% over the FRC model. Once again, the modifications to the design allow Science Officers with only minimum professional-level skill to gain battle information at ranges available only to experts with the FRC.

#### SENSORS DATA DESCRIPTIONS

For convenience, the following information is from the **STRPG2** and the **STAR TREK III** Starship Combat Game rules booklets.

Ship's sensors are a battery of detection, sampling, and analysis devices used by starships to examine their environment. Navigation sensors fix the exact position of a ship, and they tie into the navigation systems and deflector shields to protect the ship from space debris. Energy sensors can determine the amount and type of energy being output by an object or location; this function can be fine-tuned to give very accurate readings on the defensive screening of a ship or the radiation level of a dangerous area. Material analysis sensors give the dimensions, physical composition, and material properties of an object; at close range, they can give an object's exact chemical composition. Life sensors measure the abundance, type, and condition of living things; when fine-tuned at close range, they can tell one species and even one race from another.

Sensor scans are blocked by large amounts of rock or water, extremely thick atmospheres, electromagnetic interference, and certain dense or reflective materials.

The Sensors Display may be used for readings that identify ships and other objects in space and that determine size and location. It also can be used to show readings for all of the battle questions allowable for sensors in the *STAR TREK III* Starship Combat Game. These are:

- the type, size, nationality, and class of ship, or the size of any other object;
- the type of life forms present (only if the target ship's shields are down);
- 3) the composition of the object;
- 4) the status of the object's composition;
- 5) if the ship is being scanned in return.

The following battle information may be gained when sensors are successfully used in starship combat situations:

- 1) how much power the ship has available;
- the relative power allocation for movement, weapons, and shields;
- how many shields are powered, and total power put in them;
- the power given to a specific shield (probably a separate reading);
- how many beam or missile weapons are powered, and total power put in them;
- 6) the power given to a specific weapon (probably a separate reading);

- 7) damage status of the ship's engines, weapons, shields, and superstructure;
- 8) status of the ship's life forms (only if at least one shield is down);
- if any transporters are powered and how many life forms are being transported;
- the location of cloaked Romulan vessels (probably a Skill Roll will be required).

### READING SENSITIVITY

Though a starship sensors system may be used by anyone with basic proficiency in *Starship Sensors*, it is used more efficiently and with greater precision and sensitivity by those with greater skill. The information available from any reading depends on two things, the range from the subject of the scan and the detail required.

The rules books tell what information may be gained at what ranges by a person with basic proficiency (Skill Rating of 10) in *Starship Sensors*. Those rules do not take into account the increased detail and range that a skillful, experienced operator will get from the same readings. The rules in this section will present rules extensions to take increased proficiency into account. The sections below define the various proficiency groupings used and discuss the information available to characters in these groupings, showing the variation for range and for detail.

In all cases, the limits given below are for information obtained in *leisurely, non-critical, normal uses,* that is those that require *no* Skill Roll as defined in the **STRPG2** rules. For other situations, a Skill Roll may be required, as described in the section on **Using Sensors**.

#### **PROFICIENCY GROUPINGS**

The Proficiency Groups for using sensors are as follows:

#### **Skill Ratings For Proficiency Groupings**

Proficiency		
Group	Skill Rating	Description
0	1-9	Semi-skilled
I.	10 - 24	Basic Proficiency
11	25 - 39	Average Proficiency
10	40 - 59	Professional-level Proficiency
IV	60 - 79	Mastery-level Proficiency
V	With INT less than 80, 80 +	Expert-level Proficiency
	With INT 80 + , 80 - 89	
VI	With INT less than 90, 90 +	Exceptional Proficiency
	With INT 90 + , 90 - 94	
VII	95 - 00	I

#### INFORMATION CLASSES

As with tricorders, the detail available from any reading increases as the proficiency of the operator increases. The Information Classes for the tricorder are given in the table below. Each Class adds a level of detail to the information known by Classes with lower numbers, so that Class IV information is very specific.

	Information Classes		
Information		Information	
Class 0	Detail Available Navigational information Detection of large, celestial object. Type of star. Bearing and distance to detected object.	Class II	Rough, low-level detail. Movement of object. Identification of starship government, if known.
	Approximate mass and speed of detected object General information only. Detection of small celestial object or large artificial object. Bearing and distance to detected object. General classification of natural objects, including planet type. General classification of large, artificial objects, including starship class. Approximate mass and speed of object.	  V  V  V   V	Identification of starship type, if known. General battle readiness of starship. Identification of small, artificial objects, if known. General detail. Specific battle information about starship. Changes in object's movement. Tircorder Class I Tricorder Class II Tricorder Class III Tricorder class IV

The maximum sensors range for persons of minimum skill given in the **STRPG2** rules 160,000 km; this is the range a professional-level Science Officer can pick up battle information using the FRB sensors available to *Constitution* Class ships and their contemporaries. In general, the greater the skill of the user in *Starship Sensors*, the farther away that information can be detected from a scan. In addition, for a given range, the greater the skill, the more detailed the information that a scan will reveal. The tables below, one for each sensors type, show this. The tables give the ranges, in thousands of meters, that information from the seven Information Classes can be detected by the seven Proficiency Classes.

#### SENSORS SYSTEM RANGES

Information Class		Pro	ficier	ncy G	roup		
Sensors Type		11	111	IV	V	VI	VII
FRA FRB FRC FRD	20 130 300 500	30 210 450 700	50 300 650 1000	90 380 800 1200	100 460 900 01350	100 550 950 1450	100 630 1000 1500
R FRA FRB FRC FRD	100 200 350	20 140 320 550	40 220 460 750	70 300 600 1000	90 370 700 01150	100 420 750 1250	100 480 800 1300
FRA ACARA FRB MARINA FRC ANALA FRD MARINA	70 150 250	100 210 350	30 160 350 600	50 220 500 900	80 300 580 1050	90 350 650 )1150	100 400 700 1200
IV FRA FRB FRC FRD	  70			150 300 500	20 200 400 620	30 250 450 700	50 300 500 750
V FRA FRB FRC FRD			70	60 140 250	120 200 400		220 350 600
VI FRA FRB FRC FRD				 50	50 120 250	120 180 350	150 220 430
VII FRA FRB FRC FRD						50 100 150	100 150 300

## SENSORS DISPLAY

The following sections describe the data elements on each Data Wheel. The table in **Appendix B** gives the exact data elements for all four wheels.

#### SCAN SENSITIVITY

As with the tricorder Data Wheels, the data elements are organized from those available to each Information Class, with those used for Class I use occupying the lower numbered spaces, and those for Classes IV and V occupying the higher numbered spaces. Data Element 31 gives general reading information, different for each wheel, and Data Element 32 is blank. The following table shows the ranges.

Data Elements For Information Classes				
Informatio	n			
Class	Data Element Numbers			
1	1 - 18, 31, 32			
П	19 - 24			
III	25 - 30			
IV	Tricorder Elements 1 - 19			
V	Tricorder Elements 20 - 23			
VI	Tricorder Elements 24 - 27			
VII	Tricorder Elements 28 - 30			

#### **DATA WHEEL DESCRIPTIONS**

#### **Data Wheel A**

This wheel provides the basic descriptors for ships and other objects. Each major ship type is listed, as well as major celestial objects.

#### Data Wheel B

This wheel gives battle information, such as would be used with the **Starship Combat Game**. It gives the specific game descriptors (such as power to shields), the major governments, and basic size descriptors. Sizes should be given in meters and weight (mass; displacement) in metric tons. It also has numbers by hundreds to 300.

#### **Data Wheel C**

In addition to numbers from 0 to 10 and by tens to 100, this wheel provides star and planetary classifications from Type A **Data Wheel D** 

This wheel also gives numbers from 0 to 10, as well as multipliers from 1 hundred to 1 billion. It gives star and planetary classifications from Type L through Type O, and certain actions.

#### **DATA STRIP DESCRIPTIONS**

The Sensors Data Strips contain 4 drawings each. Those provided with the Display are of common starships. Strip A has drawings of Star Fleet vessels, Strip B of Klingon ships, Strip C of Romulan ships, Strip D of Gorn and Orion ships, and Strip E of commercial vessels.

#### SENSORS ROLLS

The **STRPG2** rules state that in *ROUTINE* use, a character may take sensor scans *WITHOUT* a Skill Roll. The following change in those rules is provided for those gamemasters who wish to use it. The system presented below is similar to that presented for using tricorders.

#### **PROFICIENCY FACTOR**

Whenever the sensors are used, whether the use is routine or not, the using character must roll percentile dice, just as though he were making a Skill Roll, The percentile dice roll is combined with the Skill Rating in *Starship Sensors* to give the Proficiency Factor, just as with tricorder use. This is shown in the following formula:

#### Proficiency Factor = 100 + Skill Rating - D100

The Proficiency Factor will be used to determine not just success or failure with the sensors, but how well the character used them. If the character rolls low enough, his Proficiency Factor will be very high; in this case he will have used his skill to the maximum, wringing out of the readings more information than he could normally, at a far better range, and even gaining detail as specific as tricorder readings. If he rolls high, however, the opposite may be true, and he will have used his skill less well than normal.

#### EFFECTIVE PROFICIENCY

To find the effective proficiency for any sensors use, first find the Proficiency Factor. Then, in the table below, find the character's current Proficiency Group. Cross-reference this with the column containing the Proficiency Factor. This gives the Effective Proficiency Group for that tricorder use. The highest is Group VII, no matter how high the Proficiency Factor or low the roll. For example, if a character has a Skill Rating of 57 in *Starship Sensors*, he will be in Proficiency Group III. Let us say he makes a percentile roll of 46, which makes his Proficiency Factor 113. Cross-referencing for this use shows that he is in Effective Proficiency Group IV. Because this group is higher than his usual group, he will be able to find more detail at any particular range, or increase the range for a particular type of scan.

If his percentile roll were 81, his Proficiency Factor would be 76. Cross-referencing shows that he is just barely in Effective Proficiency Group I. If he had rolled an 82, his Proficiency Factor would have been 75, and he would not have been able to get any reading at all.

For leisurely, non-critical, routine uses, the character's skill must be in Proficiency Group I or higher; for these uses, modify the table results by making the Effective Proficiency Group one higher. Characters in Proficiency Group 0 *always* use the table below with no modification.

Other modifiers may be added by the gamemaster to adjust for the situation or the desired action by the player. In this way, it is possible for player characters to use the sciences tricorder to get rough medical data, if their Proficiency Factors are high enough.

Proficiency Group	75 or less	76 - 90	Pr 91 - 99	oficiency Fac 100 - 108	tor 109 - 122	123 - 137	138+
l II	No Use No Use No Use	No Use No Use No Use	No Use No Use I	1	1    	E III	 111
	No Use	1					
VI	_	_	ĪV	v	vi	VII	VIII
			The second state				Manie

## Gamemaster's Notes

MAKING INTERPRETATIONS

It can be seen that using the Displays to get the readings is relatively easy. It also is probably apparent that interpreting the data might not be quite so easy. Raw data in the form of the settings must be interpreted to be useful to the gamer. The usefulness of any setting depends on how much effort must be expended to interpret it and on how much knowledge the interpreter has with which to compare the setting,

Take an example from daily life. While driving the standard groundcar, the dashboard readout gauges indicate low oil pressure, high oil temperature, and high water temperature. The driver can look at these readouts (which are like the Display settings) and say to himself, "Gee, the engine is getting hot." If he has more experience and knowledge, however, he can look at the readouts and say, "I've blown a gasket and lost all my oil. Without oil to lubricate the engine, friction is building up heat, and the engine will blow up if I don't pull over." Comparing the readout gauges with the oil slick the groundcar has left on the road for the past six or seven km will confirm this interpretation.

#### HINTS ON USE

Using the Displays may be a little frustrating at first, for both player and gamemaster. It will take some time to get used to setting the various letter/number elements and interpreting what they mean. Just as practice makes more-mundane things easier (like driving a groundcar), so will practice with the Displays make using them easier.

Some general tips to keep in mind:

A. Make sure that players reset *all* wheels to data element 32 (blank) before a new reading takes place, OR, make sure to include data element 32 for each wheel not used in the setting.

B. At first, for novice users (and gamemasters), it is best to use short data settings, perhaps only two or three elements long, restricting the settings to those that answer specific questions asked by the player. In this way, the players will be able to learn, through repetition, just how the device will be used, what sorts of information can be gained from what sorts of scans, how the range alters the ease with which data is available, and the particular point of view the gamemaster brings to sensors and tricorder use.

C. While the players gain familiarity with the device and the game system, be absolutely *sure* that the settings given one time for a particular answer are *exactly* the same as for another time. The more the players use the device, the more of the particular settings they will remember. (It won't take long to learn that tricorder D21 means "It's dead, Jim!") This will make the device more useful.

D. Work with the player to adopt scan sequences, and use these sequences every time you play. For example, if the players encounter a starship, choose a sequence of data readings, like that below. The next time such an encounter occurs, use the same sequence. With enough repetitions, the players will learn what information may be gained at what ranges (in general), and what information may be gained from unusually good rolls.

#### Sample Reading Sequence For Starship Contact/Combat

1) Beyond maximum range given in the table: The sensors pick up an unknown object (B4/C31), Captain. Bearing 356°. (B7/B3/C5/D6. Straight ahead is 0°, straight right is 90°, straight back is 180°, and straight left is 270°. Probably it does not matter the exact heading, but it certainly adds a STAR TREK flavor!) Range, about 1,500,000 km (B6/C10/D15/C14/D14).

2) At maximum range for Class I information: Captain, it is an unknown artificial object, travelling at sublight speed (A2/B12).

3) At the same range, second roll: It is an unknown starship, Captain, travelling at sublight speed.

4) At maximum range for Class II information: It appears to be... a Romulan, closing fast! (A3/C20/ C25, a good roll!)

5) Next roll, same range: Captain, the ship is armed, shielded, and scanning. (B19/B21/B24) 6) At maximum range for Class III information: Captain, the ship has 52 power units available. (A25/C5/D2)

... And so on.

E. As familiarity grows, use longer strings of settings, relying on the player to puzzle out what the settings mean. In this way, the players will respond to the information from the tricorder or sensors, instead of formulating specific questions for the gamemaster to answer using tricorder or sensors settings.

F. With characters having high Proficiency Factors, give detailed information in the first reading. This has a particularly nice STAR TREK flavor. Spock, after all, was able to determine some rather amazing things from his sensors, and even used them much as a tricorder would be used to its fullest. With such an important information source at their disposal, players will come to value the Science and Medical Officers all the more.



## Appendix.

These tables are meant to be used by gamemasters to provide the data elements for Tricorder Display and Starship Sensors Display settings. The first four of the Appendices are tabular lists of the data elements provided for the Displays. The remaining three Appendices are tables that expand on information so that gamemasters can take situations from their games and turn them into settings.

Appendix A lists the data elements on all four Data Wheels for the Tricorder Display, and Appendix B gives the same for the Starship Sensors Display. Appendix C gives the data elements on the five Data Strips for the Tricorder Display, and Appendix D does the same for the Starship Sensors Display. from the ship's computer. **Appendix F** gives data about planet types, which would be available only from quite close. Much of it can be provided through using the sensors like a tricorder, giving Class IV, V, VI, and VII information.

Appendix G gives the relationship between ship type (like *destroyer*) and ship class, which is a function of the ship's mass. At extreme range, the sensors system will be able to tell that an object of a certain mass is present before it can determine that the object is a starship. Knowing the ship type, the gamemaster can use the table to determine its mass, which could become a reading at extreme range. A second scan, perhaps at closer range, would provide the knowledge that it is a starship of a certain class. Only if the type were in the computer memory bank would that information be revealed immediately by a scan.

#### APPENDIX A: TRICORDER SETTINGS

<b>Element Number</b>	Data Wheel A	Data Wheel B	<b>Data Wheel C</b>	Data Wheel D
1	1000	100	10	1
2	North	200	20	2
3	South	300	30	3
4	East	400	40	4
5	West	500	50	5
6	Above	600	60	6
7	Below	700	70	7
8	Single	800	80	8
9	Multiple	900	90	9
10	Known	Energy Source	Substance	0
11	Unknown	Heat/Light	Solid	Life Form
12	Trace	Electrical	Liquid	Plant
13	Tiny	Chemical/Biochemical	Gas	Lower Form
14	Very Small	Mechanical	Organic	Insect/Arthropod
15	Small	Hydraulic	Mineral	Fish
16	Medium	Atmospheric	Metallic	Amphibian
17	Large	Seismic/Geothermal	Natural	Reptile
18	Very Large	Atomic/Nuclear	Artificial	Bird/Avian
19	Huge	Matter/Anti-matter	Synthetic	Mammal
20	Stationary/Maintaining Distance	Weak/Dilute/Low	Hot/Heat	Alive
21	Approaching	Moderate	Cold	It's dead, Jim!
22	Retreating	Powerful/Concentrated/High	Density	UFP Race
23	Moving Laterally	Variable	Mass/Weight	Other Race
24	Accelerating	Transmitting/Transmission	Massive	Expanding
25	Decelerating	Scanning/Scan	Crystalline	Contracting
26	Increasing	Radiating/Radiation	Brittle	Sentient
27	Decreasing	Discharging/Discharge	Malleable	Non-sentient
28	Random	Stable/Inert	Beneficial	New/Growing
29	Definite Pattern	Unstable	Harmful	Old/Aging
30	Cycle	Critical	Deadly	Decomposing
31	Null Reading	Out Of Range	Detected	Not Detected
32	_			

### APPENDIX B: SENSORS SETTINGS

Element				
Number	Data Wheel A	Data Wheel B	Data Wheel C	Data Wheel D
1	Unknown Natural Object	100	10/A	1/N
2	Unknown Artificial Object	200	20/B	2/0
3	Starship	300	30/C	3/P
4	Starbase	Unknown	40/D	4/Q
5	Outpost/Station	Number	50/E	5/R
6	Artificial Satellite	Range (km)	60/F	6/S
7	Metal Debris	Bearing (deg)	70/G	7/T
8	Star	Mass (mt)	80/H	8/U
9	Planet	Class	90/1	9/V
10	Moon	Туре	1/J	0/W
11	Asteroid	Warp Factor	2/K	Hundred/X
12	Rock Debris	Sublight Speed	3/L	Thousand/Y
13	Ring	Forward	4/M	10.Thousand/Z
14	Dust Cloud	Aft	5	100 Thousand
15	Interstellar Gas	Port	6	Million
16	lon Storm	Starboard	7	10 Million
17	Comet	Above	8	100 Million
18	Black Hole	Below	9	Billion
19	Beam Discharge	UFP	Armed	Stationary
20	Plasma Discharge	Star Fleet	Unarmed	Closing
21	Missile	Klingon	Shielded	Maintaining Distance
22	Explosion	Romulan	Unshielded	Retreating
23	Tractor/Pressor Beam	Orion	Scanning	Moving Laterally
24	Mine	Gorn	Transmitting	Moving Randomly
25	Total Power	Shields/Shield	Accelerating	Damaged
26	% Power	Engines/Movement	Constant Speed	Going Critical
27	Number Powered	Beam Weapons	Decelerating	Disintegrating
28	Damage/Damage To	Missile Weapons	Cloaked	Powerful
29	Point Ratio	Superstructure	Transporting	Moderate
30	Combat Efficiency	Crew	Sentient Life	Weak
31	Null Reading	Interference	Detected	Not Detected
32				

#### APPENDIX C: TRICORDER DATA STRIP ELEMENTS

### **TRICORDER DATA STRIP A: ENERGY SOURCES**

Side A: Energy Sources

- 1) Heating Coil/Element
- 2) Transformer
- 3) Generator
- 4) Fire
- 5) Combustion Engine
- 6) Pump
- 7) Turbine
- 8) Current 9) Tide
- 10) Wind
- 11) Storm
- 12) Volcanic Eruption
- 13) Earthquake
- 14) Nuclear Reactor
- 15) Beam Weapon
- 16) Deflector Shield Generator
- 17) Impulse Engine
- 18) Warp Engine

Side B: Emissions, Transmissions, and Discharges

- 19) Nuclear Radiation/X-Rays
- 20) Microwaves
- 21) Radio Signal
- 22) Sub-Space Radio Signal
- 23) Jamming
- 24) Infra-red Emission
- 25) Ultra-violet Emission
- 26) Fluorescence/Phosphorescence
- 27) Laser Beam
- 28) Phaser Beam
- 29) Disruptor Beam
- 30) Plasma
- 31) Force Field
- 32) Shielding
- 33) Gravity Field
- 34) Magnetic Field
- 35) Explosion
- 36) Electrostatic Discharge



#### APPENDIX D: SENSORS DATA STRIP ELEMENTS

#### **SENSORS DATA STRIP A: STAR FLEET STARSHIPS**

- 1) Larson Class VII Destroyer
- 2) Reliant Class X Cruiser
- 3) Constitution Class XII Cruiser

### 4) Enterprise Class XI Cruiser

#### SENSORS DATA STRIP B: KLINGON STARSHIPS

- 1) D-7 Class VIII Cruiser
- 2) D-10 Class X Cruiser 3) D-18 Class VII Destroyer
- SI D-18 Class VII Destruy
- 4) K-23 Class VII Escort

### SENSORS DATA STRIP C: ROMULAN STARSHIPS

- 1) Bird Of Prey Class VI Cruiser
- 2) Graceful Flyer Class V Scout/Courier
- 3) Gallant Wing Class X Cruiser
- 4) Winged Defender Class XII Cruiser

#### SENSORS DATA STRIP D: OTHER STARSHIPS

- 1) Orion Wanderer Class III Blockade Runner
- 2) Orion Lightning Class III Blockade Runner
- 3) Gorn BH-2 Class XII Battleship
- 4) Gorn MA-12 Class V Cruiser

#### **SENSORS DATA STRIP E: TRANSPORTS**

- 1) Sunshine Class IX Passenger Liner
- 2) Laweya Class IX Commercial Transport
- 3) Monarch Class IX Tug
- 4) Mission Class II Courier/Commercial Transport

#### APPENDIX E: STAR TYPES

Temperature (°K)

50,000

15,000

9,500

6,600 5,500

4,400

3,400

Түре	Color		
0	Blue		
В	Blue		
Α	Blue/White		
F	Blue/White		
G	White/Yellow		
к	Orange/Red		
M	Red		

#### Notes

Includes giants Includes dwarves Includes dwarves

Includes giants and supergiants Includes giants Includes giants and dwarves

#### APPENDIX F: PLANET TYPES

	After Geoff	rey Mandel		
Туре	Atmosphere	Surface	Notes	Example
Α	Reducing	Tenuous, if present	Gas giant, radiating heat	Jupiter
В	Reducing	Tenuous, if present	Gas giant, not radiating heat	Neptune
С	Reducing	Silicate rock; iron	Dense atmosphere with high surface temperature	Venus
D	Reducing	Silicate rock; metals	Small, young planet with fluid, very dense atmosphere	Excalbia
E	Reducing/oxidizing	Silicate rock; metals	Large, molten core	Janus VI
F	Oxidizing	Silicate rock; metals	Very young planet with limited free oxygen	Delta-Vega
G	Oxidizing	Ferrosilicate rock	Thin atmosphere, little water	Rigel XII
н	Variable	Silicate rock	Seismic activity normal	Gothos
1	Tenuous, if present	Nickel-iron/Silicate rock	Asteroid	Ceres
J	Very tenuous inert gas, if present	Silicate rock	Moon	Luna
К	Tenuous	Silicate rock, limited water	Habitable with pressure domes	Mars
L	Öxidizing	Silicate rock, free water	Limited seismic activity	Psi 2000
M	Oxidizing	Silicate rock, free water	Seismic activity normal	Terra
N	Oxidizing	Liquid, little rock		Argo

#### APPENDIX G: WARSHIP CLASSES

F = UFP K = Klingon R = Romulan G = Gorn											
Ship Class	Mass (mt)	Cutter	Gunboat	Monitor	Courier	Scout	Escort	Destroyer	Frigate	Cruiser	Battleship
111	0-5	FKRG	a Lata Antici Ha	and and and	FKRG 😭	FG					
11	5 - 15 9-6	FKRG	FKRG	the part of the state of the second	FKRG	FG					
III	15 - 25	G 1 2.6 30 20	FKRG	KRG 🖓	FKRG	FKRG					
IV	25 - 40		KG	KRG	FRG	FKRG	R	RG			
V	40 - 60		G	KRG	RG	FKRG	KR	FKRG		RG	
VI	60 - 80			G		FKG	KR	FKRG		RG	
VIL	80 - 100					FG	KR	FKRG	FK	RG	
VIII	100 - 120					FG	К	FKG	FK	FKRG	
IX	120 - 140							G.	FK	FKRG	
x	140 - 160							G	FK	FKRG	
XI	160 - 180								FK	FKRG	
XII	180 - 210		- 2							FRG	FKG
XIII	210 - 240									RG	FKG
XIV	240 - 270				•					G	FKRG
XV	270+										RG
					16						



A	•18. Warp Engine	noqsəW msə8āf	12. Volcanic notiqui3	9, Tide	գտող .8	3. Generator	A	
	əsiuqmi.Vt ənibri∃	14. Nuclear Reactor	11. Storm	8. Current	5. Combustion Engine	2. Transformer		
Tricorder Strip A Emissions, Transmissions, and Discharges	16. Deflector Shield Generator	13. Earthquake	bniW.01	anid1uΤ.T	4. Fire	1. Heating Coil/ Element	Energy Sources	
	19. Nuclear Radiation/X-Rays	22. Sub-Space Radio Signal	25. Ultra-violet Emission	28. Phaser Beam	31. Force Field	34. Magnetic Field	Tricorder Strip A	
	20. Microwaves	23. Jamming	26. Fluorescence/ Phosphorescence	29. Disruptor Beam	32. Shielding	35. Explosion		
В	21. Radio Signal	24. Infra-red Emission	27. Laser Beam	30. Plasma	33. Gravity Field	36. Electrostatic Discharge	В	
٨	18, Special Silicate Crystals	enílsqoT.∂r	12. Mercury	9. Gold	6. Nickel	munimulA.£	А	
	muintilia.71 Crystals	muigra9.41	munitel9.11	8, Meteoritic Nickel-iron	níT.ð	2. Copper		
Tricorder Strip B Gemstones, Radioactives, and General Mineral	nylsteyA.87	13. Phosphorus	10. Silver	oniS.X	bs∋J.₽	1. Iron	Special Metals, and Industrial Crystals	
	19. Diamond	22. Sapphire	25. Plutonium	28. Carbon	31. Granite	34. Nugget/ Nodule	Tricorder Strip B Normal Metals,	
Substances	20. Ruby	23. Spician Flame Gem	26. Thorium	29. Salt	32. Limestone	35. Vein		
В	21. Emerald	24. Uranium	27. Sulphur	30. Sandstone	33. Lava	36. Masśive Deposit	В	
A	18,	,Br	12. Brick	9. Ceramic	6. Plasteel	3. White Metal YollA	A	
	.71	לי'	11. Mortar	8. Carborundum	muinetiT.3	2. Brass		
Tricorder Strip C Natural or Synthetic Organic Materials	.81	13. Glass	10. Concrete	A. Duraluminum	4, Steel	9, Bronze	ricorder Strip C Processed Minerals and Metals	
	19. Crude Oil	22. Petroleum Fuel	25. Soft Plastic	28. Solvent	31. Synthetic Fiber	34. Paper		
	20. Asphalt	23. Natural/Fuel Gas	26. Alcohol	29. Lubricant	32. Animal Fiber	35. Wood		
В	21. Petroleum Jelly	24. Hard Plastic	27. Adhesive	30. Rubber	33. Plant Fiber	36. Coal	В	



RACES Non-Federation **Tricorder Strip E** 

### 32. Carbohydrate 35. Sedative 31, Fat **34. Animal Poison** 1. Primate 7. Fowl 4. Dog/Wolf

## **Tricorder Strip D** Life Forms

**Tricorder Strip E** 

**Federation Baces** 

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Atmosphere 36. Stimulant **33. Plant Poison** 30, Protein S/. Methane uagγx∪.45 901.FS segionerdsomiA apuetsdug re. Nitrogen 29, Food Disphered (Standard 20. Salt Water Atmosphere DIOXIGE **VV8ter** seo nen .82 22. Water Vapor Z5. Carbon 19, Pure/Fresh 16. Protozoa/ 10. Spider 13. Worm Amoeba 2. Whale/Dolphin 5. Rodent 8. Snake 11. Wasp/Bee 14. Bacteria 17. Parasite 15. Virus 3. Cat 6. Bird of Prev 9. Lizard 12. Snail/Slug 18. Flying Parasite

#### soupeay Life Support Tricorder Strip D

8

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В

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Sensors Strip A Star Fleet Starships



Sensors Strip B Klingon Starships







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